

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning on page 1, line 12, with the following amended paragraph:

As chlorofluorocarbon (CFC), a refrigerant used for a refrigerator, an air-conditioner or the like, has been known as a source material damaging an ozone layer of the stratosphere, ~~researches~~ research on a substitute refrigerant is being actively conducted.

Please replace the paragraph beginning on page 2, line 4, with the following amended paragraph:

Among the natural refrigerants, hydrocarbon comprises only carbon and hydrogen and includes R50 (methane), R170 (ethane), R290 (propane), R600 (butane), R600a (~~isobutene~~isobutane), R1270 (propylene) or the like. Hydrocarbon is not toxic and chemically stable and especially exhibits an appropriate solubility in a mineral oil.

Please replace the paragraph beginning on page 2, line 18, with the following amended paragraph:

However, with all those advantages, ~~isobutene~~ isobutane (R600a) is hardly combined with refrigerant oil currently used for a refrigerating system due to its chemical and electrical properties. Therefore, a refrigerant oil suitable for ~~isobutene~~ isobutane (R600a) is in need of development. Especially, necessity of a refrigerant oil usable for a reciprocating compressor for compressing ~~isobutene~~ isobutane (R600a) comes to the front.

Please replace the paragraph beginning on page 9, line 18, with the following amended paragraph:

As the natural refrigerant, an organic compound refrigerant consisting of only carbon and hydrogen is mainly used. Among organic compound refrigerants, hydrocarbon, consisting of only carbon and hydrogen, has no toxicity, is chemically stable, has a zero ozone depletion

potential and a very low global warming index. Hydrocarbon includes R50 (methane), R170 (ethane), R290 (propane), R600 (butane), R600a (~~isobutene~~isobutane), R1270 (propylene), etc.

Please replace the paragraph beginning on page 10, line 1, with the following amended paragraph:

Especially, ~~isobutene~~isobutane (R600a) is hydrocarbon-based, has a molecular formula of $\text{CH}_3(\text{CH}_3)_3$, and is environment-friendly natural gas which does neither damage an ozone layer nor affect a greenhouse effect, and as such it is used as a refrigerant compressed by the reciprocating compressor of the present invention.